Essential Chemistry Student Textbook

This rigorous yet accessible textbook includes core Chemistry topics that cover a complete year of instruction. The lessons follow the 5E model and include tools for differentiated instruction and ELL students. The Essential Chemistry curriculum aligns to state standards and was designed to help you meet the Next Generation Science Standards.

1. The Science of Chemistry
2. Measurement and Analysis
3. Classifying Matter
4. Temperature and Heat
5. Chemical Compounds
6. Moles
7. Chemical Reactions
8. Stoichiometry
9. Atomic Structure
10. Bonding and Valence
11. Energy and Change
12. Gases
13. Solutions
14. Reaction Rates
15. Equilibrium
16. Acids and Bases
17. Oxidation and Reduction
18. Electrochemistry
19. Nuclear Chemistry
20. Organic Chemistry
21. Molecular Biology
22. Biochemistry
23. The Earth
24. The Universe

Essential Chemistry Student e-Book

The multiphase Essential Chemistry Student e-Book includes an electronic version of the full textbook, over 70 labs and activities, interactive simulations, an Equation Solver, 3-D molecular modeling, embedded animations, and assessment.

This online all-digital Teacher Resource includes:
- Standards Alignment Guide for your state!
- Teacher Edition flash drive + Student Edition flash drive
- Essential Chemistry Teacher User Guide
- Teacher e-Book with five-year license
- Student e-Book with five-year license
- SPARKvue software

For more information on Teacher Resources, talk with your PASCO Education Specialist, or call 877-373-0300.
Essential Chemistry
Standard Equipment Kit
EC-6361 $525
Includes 1 of each of the following:
• Wireless Temperature Sensor
• Wireless pH Sensor
• Wireless Conductivity Sensor
• Wireless Pressure Sensor
• Wireless Voltage Sensor
• Wireless Colorimeter and Turbidity Sensor
• Molecular Model Set
• Electrode Support
• Condenser
• Periodic Trend Cards
• Spectrum Cards
• Periodic Table
• Gratnells® Storage Case (2)
This equipment kit supports 47 Essential Chemistry labs. The other labs in the textbook can be performed using typical equipment found in your chemistry lab.

The equipment above can also be purchased separately.

Wireless Temperature Sensor
PS-3201 $99

Wireless pH Sensor
PS-3204 $65

Periodic Table (4-pack):
EC-3404 $10

Wireless Conductivity Sensor
PS-3210 $95

Wireless Pressure Sensor
PS-3203 $89

Condenser
PS-3402 $20

Wireless Voltage Sensor
PS-3211 $59

Wireless Colorimeter and Turbidity Sensor
PS-3215 $115

Molecular Model Set
PS-3400 $45

For more Essential Chemistry information, contact your PASCO Education Specialist. Email sales@pasco.com or phone 877-373-0300. Visit our website at pasco.com/essentialchemistry